

LYAKHOV, G.M., *hand.tekhn.nauk*

Comments on I.F.Naumkin's book "Safety engineering in coal mines."
Bezop.truda v prom. 7 no.7:37 J1 '63. (MIRA 16:9)
(Coal mines and mining—Safety measures)
(Naumkin, I.F.)

L 47736-65 EWA(h)/EWT(1) Feb GW

ACCESSION NR AM5004504

BOOK EXPLOITATION

S/

16

641

Lyakhov, Georgiy Mikhaylovich (Doctor of Technical Sciences)

Principles of the dynamics of blasting in the ground and liquid mediums (Osnovy dinamiki vzryva v gruntakh i zhidkikh sredakh), Moscow, Izd-vo "Nedra", 1964, 215 p. illus., biblio. Errata slip inserted. 2,000 copies printed.

TOPIC TAGS: explosion, mining, geophysics, explosion wave, seismology

PURPOSE AND COVERAGE: This book presents the principles of the dynamics of underground explosions. Some results of the research can be used in calculating the effect of explosions in simple strata and liquid media. It gives information from soil mechanics and the theory of explosion waves in dense media. The book considers the simplest methods of calculating the interactions of waves with building structures. It includes the results of experimental research on waves in soils, and interactions with obstructions and the liquefaction of water-saturated sands in explosions. The results make it possible to be more exact about the physical essence of the effect of an explosion and provide tested data for calculating the dynamic loads on building structures for a more general definition of safety requirements in explosion operations. The book is intended for researchers and engineers concerned with the applied problems of explosion

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theory, the dynamics of buildings, and soil mechanics; it also can be used by advanced students in the appropriate specialties.

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SUBMITTED: 30 May 64

SUB CODE: ES, WA

NO REF SOV: 060

OTHER: 010

Card 2/278

GAVRICHKOV, Fedor Stepanovich; SHILIN, Boris Alekseyevich;
LYAKHOV, G.M., kand. tekhn. nauk, retsenzent; SMIRNOV,
L.V., otv. red.

[Miner of horizontal and inclined workings] Prokhodchik
gorizontal'nykh i naklonnykh gornyykh vyrabotok. Moskva,
Nedra, 1965. 235 p. (MIRA 18:7)

L 15871-66 EWT(d)/EWT(1)/EWP(m)/EWT(m)/EWP(w)/FCC/EWA(d)/EWP(n)/FCS(k)/EWA(h)/
ACC NR: AP6004436 ETC(m)-6 IJP(c) SOURCE CODE: UR/0414/65/000/003/0083/0092
AUTHOR: Lyakhov, G. M. (Moscow); Osadchenko, R. A. (Moscow); Polyakova, N. I. (Moscow)
ORG: none

1,411,5
TITLE: Interaction between a shock wave and a moving obstacle in a plastic medium
with regard to the effect of the free surface

SOURCE: Fizika goreniya i vzryva, no. 3, 1965, 83-92

TOPIC TAGS: wave mechanics, shock wave propagation

26
ABSTRACT: The authors consider interaction between a plane compression wave and an obstacle in elastoplastic media taking account of the free surface factor. The medium is described and wave propagation is analyzed with regard to interaction between the wave and the obstacle. The results are analyzed for interaction of non-stationary and stationary waves with an obstacle of infinite mass. Curves are given showing the pressure acting on an obstacle of finite mass for various ratios between the acoustic resistances of the media in front of and behind the obstacle. It is found that the free surface has a more rapid effect in the plastic medium than in

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the elastic medium. There is a smooth increase or reduction in pressure in the medium to the value at the free surface. The free surface causes periodic pressure drops to negative values in the elastic medium. Orig. art. has: 7 figures, 22 formulas.

SUB CODE: 20/ SUBM DATE: 02Nov64/ ORIG REF: 005/ OTH REF: . 001

Card 2/2-*c*

L 26629-66 EWT(1)/ENP(m)/EWA(d)/EWA(h) WH/GW

ACC NR: AP6013926

(A)

SOURCE CODE: UR/0207/66/000/002/0090/0096

AUTHOR: Kuznetsov, V. I. (Moscow); Lyakhov, G. M. (Moscow)

ORG: none

TITLE: Experimental investigation of the interaction between shock waves and barriers in the soil

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 90-96

TOPIC TAGS: ~~compression~~ shock wave, shock wave analysis, wave mechanics, shock wave interaction, soil mechanics ✓

ABSTRACT: Data are given from experiments on the interaction between a plane shock wave and a moving barrier in the ground. An approximate solution is given for the problem of this interaction considering the soil to be nonlinearly elastic at high pressures and plastic at low pressures. This type of model is applicable to shock waves in soils with and without water saturation. Experiments are conducted to determine the curve for the dynamic compressibility of the soil and it is shown that this curve conforms to the equation of state for water-saturated soil considered as a three-component ideal liquid at pressures greater than $15-20 \cdot 10^5$ N/m². The expressions for the load on the barrier gave results which agreed satisfactorily with direct experimental measurements. The authors are grateful to S. D. Mityakin for taking part in the experiments. Orig. art. has: 7 figures, 23 formulas.

SUB CODE: 20/

SUBM DATE: 16Aug65/

ORIG REF: 007/

OTH REF: 000

Cord 1/1 ✓

L 26763-66 EWT(1)/EWP(m)/EWA(d)/EWA(h) WW

ACC NR: AP6013927

SOURCE CODE: UR/0207/66/000/002/0096/0099

AUTHOR: Kuznetsov, V. I. (Moscow); Lyakhov, G. M. (Moscow)

ORG: none

TITLE: Interaction between a wall and waves from a one-dimensional gas detonation with long and negligibly short periods of ignition induction

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 96-99

TOPIC TAGS: gas detonation, detonation wave, wave mechanics, shock wave reflection

ABSTRACT: The authors consider collision between an absolutely rigid wall and a plane shock front propagating in a reactive medium. It is assumed that the reflection is a detonation wave propagating in an explosive gas mixture treated as an ideal gas which is compressed by the precussion but has not yet reacted. This case is possible when the period of the ignition induction in the incident wave is much longer than that in the reflected detonation wave. A theoretical formula is derived for the ratio between the velocities of the reflected and incident waves, assuming that there is no chemical reaction in the gas for a definite period of time during propagation of the incident wave. A second limiting case is considered where it is assumed that the entire region of the compressed gas in the detonation wave is completely filled with detonation products immediately after incidence of the wave front against the wall.

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ACC NR: AP6013927

In conclusion the author thanks Ya. K. Troshin who suggested investigation of detonation wave collision. Orig. art. has: 2 figures, 18 formulas.

SUB CODE: 19, 20/ SUBM DATE: 03Dec65/

ORIG REF: 012/

OTH REF: 004

Card 2/2 *plw*

ACC NR: AT0034250

SOURCE CODE: UR/0000/65/000/000/0043/0053

AUTHOR: Lyakhov, G. M.; Dubova, R. I.

ORG: none

TITLE: Waves in soil during surface explosions and their interaction with obstacles

SOURCE: AN SSSR. Sibirskoye otdeleniye. Uchenyy sovet po narodnokhozyaystvennomu ispol'zovaniyu vzryva. Sessiya. 5th, Frunze, 1963. Trudy. Frunze, Izd-vo Ilim, 1965, 43-53

TOPIC TAGS: underground explosion, high explosive, shock wave propagation

ABSTRACT: In an earlier work, several results were given of experimental studies of waves generated in soil by surface explosions, where the charge was placed on the soil surface. In the present paper, the results of experiments are presented which compare the waves generated by underground and surface explosions. The reflection of waves from stationary obstacles is discussed. The experiments were carried out in a disturbed sandy soil (sandy fill). TNT charges were used ranging from 0.2 to 1.6 kg. The wave parameters were recorded, using high frequency tensometers, on an oscillograph. Sensors were placed in the soil along lines perpendicular to the surface and radial lines. At some locations two sensors were oriented in radial and transverse directions to the direction of wave motion; at others a three-component set of detectors was used. In

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ACC NR: AT6034253

the experiments, the speed of propagation of the wave front and maximum pressure was studied as a function of a scaled distance which was a function of the actual distance and the inverse cube-root of the weight of the charge. This comparison was made for charges fired both on the surface and underground. In the discussion of results, the waves are explained as being due to the superposition of the outgoing wave from the source, a wave reflected from a subsoil layer, and a signal generated by the air wave. Orig. art. has: 22 formulas, 7 figures.

SUB CODE: 08,19/

SUBM DATE: 03Sep65/

ORIG REF: 005/

OTH REF: 001

Card 2/2

L 25586-66 EWT(1)/EWP(m)/EWA(d)/EWA(h)/ETC(m)-6/EWA(1) JKT/WW
ACC NR: AM6007342 Monograph

UR/ 90
88
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Panichkin, Ivan Aleksandrovich; Lyakhov, Andrey Borisovich

Principles of gas dynamics and its application to the design of supersonic wind tunnels (Osnovy gazovoy dinamiki i ikh prilozheniye k raschetu sverkhzvukovykh aerodinamicheskikh trub) Kiev, Izd-vo Kievsk. univ., 1965. 150 p. illus., biblio 3600 copies printed.

TOPIC TAGS: aerodynamics, gas dynamics, shock wave, oblique shock wave, supersonic wind tunnel, shock wave reflection, velocity measuring instrument

PURPOSE AND COVERAGE: This book is intended for engineers engaged in the field of high-speed aerodynamics and also for senior students in schools of higher education. It contains an account of the theory of one-dimensional, steady motion of an ideal gas and application of this theory to the design of gas dynamic properties of supersonic wind tunnels. It presents a more detailed treatment of the gas dynamic problems related to wind tunnels than is found in the known textbooks on gas dynamics. It is divided into three main sections dealing with the theoretical aspects of gas motion, the gas dynamics of supersonic wind tunnels, and calculations of gas dynamic characteristics of the latter.

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Section II. Gas Dynamics of Supersonic Wind Tunnels

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SUB CODE: 20/ SUBM DATE: 11Nov65/ ORIG REF: 004/ OTH REF: 001/

Card 3/3 *da*

VENTSKOVSKIY, L.E. (Moskva); LYAKHOV, I.I. (Moskva)

Importance of physics courses in raising the working qualifications
of students studying in evening (shift) classes. Fiz. v shkole 20
no.5:36-42 S-O '60. (MIRA 13:11)
(Physics--Study and teaching)

KERTSMAN, G.I. (Moskva); LYAKHOV, I.I. (Moskva)

Let's lead a persistent struggle for the improvement of the quality
of students' knowledge. Fiz. v shkole 21 no.2:53-55 Mr.-Ap '61.
(MIRA 14:8)
(Physics--Problems, exercises, etc.)

LYAKHOV, K.

Methods of planning and accounting for tugboat operations in
the United Volga Steamship Companies. Rech. transp. 16 no.4:
10-13 Ap '57. (MLRA 10:5)

1. Starshiy inzhener Volzhskogo ob'yedinennogo parokhodstva.
(Volga River--Towing)

LYAKHOV, K., inzh.

Method of establishing transportation schedules in heavy freight-flow directions. Rech. transp. 19 no.10:18-20 0 '60.

(MIRA 13:11)

(Inland water transportation)

KHEYFETS, M.; LYAKHOV, K., starshiy inzh.

Integrated schedule for 1961 of steamship lines in the central basins.
Rech. transp. 20 no.5:4-8 My '61. (MIRA 14:5)

1. Zamestitel' nachal'nika sluzhby perevozok i dvizheniya flota
Volzhskogo ob'yedinennogo rechnogo parokhodstva (for Kheyfets).
(Inland water transportation) (Steamboat lines)

LYAKHOV, K.

Improve the centralized guidance and control of scheduled operations of the fleet. Rech. transp. 21 no.5:3-4 My '62.

(MIRA 15:5)

1. Zamestitel' nachal'nika Sluzhby perevozok dvizheniya flota Volzhskogo ob'yedinennogo rechnogo parokhodstva.

(Inland water transportation)

LYAKHOV, K. inzh.

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flow of small-batch cargoes. Rech.transp. 22 no.14-15 Ja '63.
(MIRA 1632)

(Inland water transportation)

KHEYFETS, M., inzh.; LYAKHOV, K.

New developments in the schedule of fleet movements in central basins. Rech. transp. 21 no.6:8-9 Je '62. (MIRA 15:7)

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(Volga Valley--Inland water transportation)

LYAKHOV, K.

Attaching a group of sister ships to a group of cargo lines. Rech.
transp. 22 no.11:18-19 N '63. (MIRA 16:12)

1. Zamestitel' nachal'nika sluzhby ekspluatatsii flota i portov
Volzhskogo ob'yedinennogo rechnogo parokhodstva.

GOR'KOV, N.; LYAKHOV, K.

Program of action of the Volga River workers. Rech. transp. 22
no.3:3-4 Mr '63. (MIRA 16:4)

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ob'yedinennogo rechnogo parokhodstva (for Gor'kov). 2. Zamestitel'
nachal'nika sluzhby ekspluatatsii flota i portov Volzhskogo
ob'yedinennogo rechnogo parokhodstva (for Lyakhov).
(Volga River--Shipping)

KHEYFETS, M., inzh.; LYAKHOV, K., inzh.

Calculating time norms for the transfer of ships through lock systems.

Rech. transp. 22 no.3:11-13 Mr '63.

(MIRA 16:4)

(Locks (Hydraulic engineering))

(Inland navigation)

BAGROV, L., inzh.; LYAKHOV, K., inzh.; KHEYFETS, M., kand.tekhn.nauk

New trends in the "Regulations on the traffic schedule of the fleet."
Rech. transp. 24 no.4:5-7 '65. (MIRA 18:5)

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I.M., kand. tekhn. nauk, retsenzent; BOGACHEVA, N.G.,
ved. red.

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STEPANOV, G.Yu., prof., red.

[Design and construction of motor-vehicle and tractor
engines] Konstruktsiia i raschet avtotraktornykh dvigatelei.
Izd. 2., perer. i dop. Moskva, Mashinostroenie, 1964. 552 p.
(MIRA 18:4)

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Possibilities of increasing the productivity per shift of jet
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and Ore Dressing Combine. Gor.zhur. no.2:39-41 P '63.

(MIRA 16:2)

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(for Zapara, Lyakhov). 2. Glavnyy inzhener Yuzhnogo gornobogatitel'-
nogo kombinata (for Generalov).
(Krivoy Rog Basin--Boring machinery)

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(MIRA 15:11)

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SO: W-3149, Sep 55

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V.M., nauchnyy red.; SERGEYEVA, N.A., red.izd-va; IYERUSALIMSKAYA,
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[Combining geological and geophysical methods for studying proved
ore-bearing areas; work of the Scientific-Research Sector of the
Moscow Geological Prospecting Institute] Sochetanie geologicheskikh
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(MIRA 14:1)

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(Transbaikalia--Prospecting--Geophysical methods)

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Predicting the structure of some Mesozoic depressions in Trans-
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LYAKHOV, K.S., inzh.

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accelerated turnover. Proizv.-tekhn. sbor. no.2:3-14 '59.
(MIRA 13:10)

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VIKHERT, Mikhail Mikhailovich; DOBROGAYEV, Rostislav Pavlovich; LYAKHOV, Mikhail Ivanovich; PAVLOV, Aleksey Vasil'yevich; SOLOV'YEV, Mikhail Petrovich, professor; STEPANOV, Yuriy Aleksandrovich; SUVOROV, Viktor Grigor'yevich; KHANIN, N.S., kandidat tekhnicheskikh nauk, retsenzent; CHISTOZVONOV, S.B., retsenzent; NECHAYEV, B.K., doktor tekhnicheskikh nauk, retsenzent; SHUBOVICH, S.I., kandidat tekhnicheskikh nauk, retsenzent; YEGORKINA, L.I., inzhener, redaktor; SOKOLOVA, T.P., tekhnicheskij redaktor

[Construction and design of truck and tractor engines] Konstruktsiya i raschet avtotraktornykh dvigatelei. Pod red. I.U.A. Stepanova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 604 p. (MIRA 10:10)

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2. USSR (600)

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YAKHOV, M. Ye.

441-115
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Region. Akademiya Nauk SSSR, Institut Geografii (and) Institut Lesa, Mikrokli-
maticheskie i klimaticheskie issledovaniya v Priaspilskoi Nizemnosti. Moscow, 1959.
p. 86-93. 1 fig. 1 table. D.L.C. Methods and results of microclimatic observations carried out
in the summer 1951 by a climatological group of the Caspian expedition of Moscow University
to study the influence of the Lower Volga on air temperature, humidity and the moisture
deficit of air of surrounding areas and the extension of this influence to the right bank of the
river, where dry winds prevail in summer. It is shown that although the observed elements are
considerably changed by their passage over the river, the width of the zone of this influence
is very restricted and does not exceed 500-1000 m. In spite of the fact that dry winds are
weakened on the right bank and their recurrence is reduced, the vegetative cover is considerably
poorer than on the left bank. This is because the right bank is much higher (20 m above the
river level) and ground waters are found at a considerable depth below the soil layer. Subject
Headings: 1. Microclimatological observations 2. Dry winds 3. Astrakhan Region, U.S.S.R.
—A.M.P.

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Surveys

460

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TITLE: The Bulletin of the International Council for the Study of
Afro-Asian Geography, 1956 (Byulleten' mezhdunarodnogo soveta
po izucheniyu geografii Azii i Afriki)

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya,
1958, Nr 5, pp 126-128 (USSR)

ABSTRACT: This is a review of the first copy of the Bulletin of the
International Council for the Study of Afro-Asian Geography
issued at Aligarh, India. The Bulletin will be published
semi-annually and will contain bibliographical and other
information on Afro-Asian geography.
There is one Soviet reference.

Card 1/1

LYAKHOV, M.Ye.

Characteristics of climatic zones in the central part of the Pacific Ocean; according to observations made during the cruise of the "Vityaz'." Izv.AN SSSR.Ser.geog. no.3:71-74 My-Je '60. (MIRA 13:6)

1. Institut geografii AN SSSR.
(Pacific Ocean--Climate)

LYAKHOV, M.Ye.

Characteristics of climatic zones in the central part of the
Pacific Ocean. Trudy Inst.ocean. 40:23-28 '60. (MIRA 14:8)
(Pacific Ocean--Climate)

LYAKHOV, M.Ye.

On the monsoon climate of Kamchatka. Izv.AN SSSR.Ser.geog. no.3:
47-49 My-Je '61. (MIRA 14:5)

1. Kamchatskaya kompleksnaya ekspeditsiya Sibirskogo otdeleniya AN
SSSR.

(Kamchatka---Climate) (Kamchatka---Monsoons)

LYAKHOV, M.Ye.

A trip across Assam. Vest.Mosk. un. Ser. 5: Geog. 17 no.1:50-56
Ja-r '62. (MIRA 16:7)

1. Institut geografii AN SSSR.
(Assam—Geography)

ZAPARA, S.A., kand. tekhn. nauk; LYAKHOV, N.I., inzh.

Increasing the efficiency of jet piercing machines at a strip mine of the Southern Mining and Ore Dressing Combine. Met. i gornorud. prom. no.6:48-51 N-D '62. (MIRA 17:8)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog.

PANOV, V.A., kand. tekhn. nauk; METS, Yu.S.; LYAKHOV, N.I.;
OKSANICH, I.F.

Improvement of boring and blasting operations in mining and
ore dressing combines of the Krivoy Rog Basin. Met. i gornorud.
prom. no.3:53-55 My-Je '65. (MIRA 18:11)

U
ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.;
BEVZ, N.D.; BEREZOVSKIY, A.I.; GENERALOV, G.S.;
DOROSHENKO, V.I.; YESHCHENKO, A.A.; ZAPARA, S.A.; KALINICHENKO, V.F.;
KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Ye.;
LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, Yu.S.; OVODENKO,
B.K.; OKSANICH, I.F.; PANOV, V.A.; POVZNER, Z.B.; PODORVANOV, A.Z.;
POLISHCHUK, A.K.; POLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.;
SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.;
TERESHCHENKO, A.A.; TITOV, O.S.; FEDIN, A.F.; KHOMYAKOV, N.P.;
SHEYKO, V.G.; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.

Practice of construction and exploitation of open pits of Krivoy
Rog Basin mining and ore dressing combines. Gor. zhur. no.6:
8-56 Je '63. (MIRA 16:7)

(Krivoy Rog Basin--Strip mining)

LYAKHOV, N.I., kandidat pedagogicheskikh nauk.

Against the perversion of the concept of technical education.
Politekh.obuch. no.7:3-9 J1 '57. (MLRA 10:7)
(Technical education)

LYAKHOV, N.I.

Work training in the schools of Ukraine. Politekh. obuch. no.8:8-12
Ag '59. (MIRA 12:10)

1.Glukhovskiy pedagogicheskiy institut.
(Ukraine--Vocational education)

LYAKHOV, O., kand.tekhn.nauk; GOLOGANOV, O., inzh.

Highly economical water heater. Obshchestv.pit. no.1:38-40 Ja '63.

(Water heaters)

(MIRA 16:4)
(Gas, Natural)

LYAKHOV, O. G. Cand Tech Sci. -- (diss) "The Hydraulic Mode of
Complex Thermal Networks." Mos, 1957. 16 pp 20 cm. (Min of ^{Electric}Power
Stations USSR, All-Union Order of Labor Red Banner Heat ^{Engineering}Technology
Scientific-Research Inst im P. E. Dzerzhinskiy), 110 copies
(KL, 17-57, 97)

~~-38-~~
-38-

LYAKHOV, O.G., inzhener.

Method for calculating flow distribution in thermal network having
parallel operation of power stations. Teploenergetika 4 no.3:44-48
Mr '57. (MIRA 10:3)

1. Vsesoyuznyy teploekhnicheskii institut.
(Heating from central stations) (Electric power plants)

LYALHOV O.G.

AUTHORS: Zinger, N.M., (Candidate Tech.Sc.) and Lyalthov, O.G.^{96-4-2/24}
(Candidate Tech.Sc.).

TITLE: Some problems concerning hydraulic conditions of district-heating systems during combined operation of heat and electric power stations. (Nekotoryye voprosy gidravlicheskogo rezhima teplovyykh setey pri sovmestnoy rabote TETs)

PERIODICAL: Teploenergetika, 1958, No.4, pp 11-16 (USSR)

ABSTRACT: In the design and operation of district-heating systems in which a number of power stations are connected in parallel on the heating side one of the most difficult questions is calculation of the appropriate hydraulic pressure. The hilliness of the locality, the need to prevent water from boiling in the heating system and the objections to excessive pressure in the power station heaters and in consumers' systems must all be considered. The main problems are those of regulating the flow of water from individual power stations and determining the 'water-sheds' in the supply and return mains (which often do not coincide); also of determining the head on the return headers of various power stations and selecting the point for adding make-up to the system, and so on. These

Card 1/2

96-4-2/24

Some problems concerning hydraulic conditions of district-heating systems during combined operation of heat and electric power stations

questions have never been analysed in a general way although they are of considerable practical importance. The article therefore gives a theoretical analysis of the location of the 'water-shed' in a system of two heat and electric power stations with pumping and throttling sub-stations. Figs. 2 and 3 graph pressures at these two sub-stations. In both cases the position of the 'water-shed' is altered and this changes the quantity of hot water delivered by each power station. A method of determining the best location for pumping or throttling sub-stations is described with reference to the graphs of Fig.4. The article then considers pressure changes on the intake headers of power stations operating in parallel when pumping and throttling sub-stations are included in the heating system. Pressure graphs showing the effect of a number of pumping sub-stations are given in Fig.5 and pressures in a system with three power stations in Fig.6. The hydraulic design of a ring-main system as illustrated in Fig.7 is also considered. There are 8 figures and 1 Russian reference.

Card 2/2

ASSOCIATION: All-Union Thermo-Technical Institute. (Vsesoyuznyy Teploekhnicheskii Institut).
AVAILABLE: Library of Congress.

LYAKHOV, O.G.

Operational testing of individual mechanical temperature control devices. Vod. 1 san. tekhn. no.10:25-28 0 '61.

(Temperature regulators--Testing)

(MIRA 14:11)

YAKIMOV, L.K.; LYAKHOV, O.G.; YAKIMOV, O.L.

Contact watertube boiler unit for heat supply to industrial enterprises. Prom.energ. 17 no.1:12-15 Ja '62.

(MIRA 14:12)

(Boilers, Watertube)

LYAKHOV, O.G.; KHASILEV, V.Ya.

Control characteristics of individual heat regulators for
buildings heated from central stations. Sbor. nauch. rab.
AKKH no.9:179-189 '61. (MIRA 16:1)
(Thermostat) (Heating from central stations)

LYAKHOV, O., kand. tekhn. nauk

Room temperature controller. Zhil.-kom. khoz. 12 no.3:15
Mr '62. (MIRA 15:10)

(Hot-water heating—Regulators)

YAKIMOV, L.K.; LYAKHOV, O.G.; KHASILEV, V.Ya.; YAKIMOV, O.L.

An efficient type of water heating boiler unit with a contact
chamber for a one-pipe system of centralized heat supply. Sbor.
nauch. rab. AKKH no.9:31-50 '61. (MIRA 16:1)
(Heating from central stations) (Water heaters)

LYAKHOV, P. A.

Laboratory investigation of the possibilities of replacing the coke fines in agglomerating mixtures with anthracite or anthracite culm. P. A. Lyakhov. Trudy Nauch-Issled. Inst. Mekh. Obrabotki Polesynkh Ispol. mykh. Shornik 1956, No. 95, 70-86. — The possibility of completely or partially replacing in agglomerating ore mixtures (as studied in lab. tests because of the anticipated shortage of coke fines, with crushed anthracite or anthracite culm, was studied in South Russia. Culm and crushed anthracite can be substituted for coke fines provided their total volatile matter is not over 6%. For the same ore concentrates, the optimum fuel consumption was 6% with coke (to the wt. of the concentrates), 5.8% with culm, and 5.85% with crushed anthracite; the bulk wt. of the mixt. was 1.7 tons/cu. m. with coke, 1.73 tons/cu. m. with culm, and 1.76 tons/cu. m. with anthracite. The sintering rate was reduced from 23.6 mm./min. with coke to 20 mm./min. with anthracite or culm. The yield of the agglomerate increased from 64.5% with coke to 62.6% with crushed anthracite and 63% with culm. The agglomerate, when sintered with anthracite was stronger and contained less FeO than when sintered with coke. Anthracite is recommended when the agglomerate is to be used for special purposes, as in the Martin process, where a higher apparent sp. gr. is demanded, the apparent sp. gr. with anthracite being 10-12% higher. Mineralogical analysis of the agglomerates failed to disclose any important differences, except for a small reduction in pore size when anthracite is used.

W. M. Sternberg

Lyakhov, P. A.

137-58-2-4443

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 306 (USSR)

AUTHOR: Lyakhov, P.A.

TITLE: Labor Conditions at KYuGOK Sintering Plant Improved by Partial Cooling of Returns (Uluchsheniye usloviy truda na aglomeratsionnoy fabrike KYuGOK'a za schet chastichnogo okhlazhdeniya vozvrata)

PERIODICAL: Obogashcheniye rud, 1957, Nr 2, p 52

ABSTRACT: Water-cooling the returns down to 200°C increased output efficiency and reduced the dust volume by 89% at the return-dosing tables, 93% at the conveyers bringing up the hot returns for the furnace charge, 83% in the gallery behind the primary mixers.

Ye. L.

1. Industrial plants--Efficiency

Card 1/1

LYAKHOV, P.A., ASTAKHOV, A.G.

Cooling the agglomerate by outdoor storage. Obog. rud 2 no. 6:51-
54 '57. (MIRA 11:8)

(Ore dressing)

137-58-4-6420

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 12 (USSR)

AUTHOR: Lyakhov, P. A.

TITLE: Industrial-scale Experiments in the Sintering of Heated Charges at the Vysokogorskaya and im. Serov Mill Sintering Plants (Pro-myshlennyye opyty spekaniya nagretoy shikhty na aglomeratsionnykh fabrikakh Vysokogorskoy i zavoda im. Serova)

PERIODICAL: Sb. nauchno-issled. rabot N.-i. i proyektn. in-t mekhan. obrabotki poleznykh iskopayemykh, 1957, Nr 99, pp 94-112

ABSTRACT: The problem of increasing the unit productivity of sintering machines by heating the charge was studied under industrial conditions. The increase in productivity attained under laboratory conditions was not confirmed by industrial practice at these plants. Experiments determined that the charge might be heated to 55-60°C in winter. Heating of the charge to 55-60°C eliminates the formation of a moisture condensation zone in the lower strata of the layer of material being sintered, and this increases the productivity of the plant, the increase being the greater, the finer is the material in question. In sintering ore fines (12-0 mm) the unit productivity rose by 6-7 percent, while in sintering fine con-

Card 1/2

137-58-4-6420

Industrial-scale Experiments in the Sintering of Heated Charges (cont.)

concentrates wherein the charge contained up to 28.3 percent of the fraction smaller than 0.15 mm, the result was an increase of up to 16 percent. The method by which the charge is heated should best be one in which returns are the last component added to the charge, and to accomplish this the proportioning conveyor carrying all the charge components should pass beneath the returns bins, as has been provided at Goroblagodat^{skaya} Mill Nr 2 and at the Kamysh-Burun^{skaya} and Vysokogorsk^{skaya} plants. This procedure is recommended for wet and fine concentrates. At the mill of the im. Serov Plant, more than 1/2 of the ore component of the charge is delivered by a special conveyer to a point beneath the return bin. The hot returns are dumped onto this ore bed, and the mixture of ore and returns goes to the charge bins in which the cold ore is heated by the hot returns. The next step is charging in the usual fashion. In a case in which the hot returns are mixed with a highly moist concentrate (KMA ore), it is dried by the heat of the returns, with the result that the charge reaches the sintering machine at a maximum temperature of 30-34°. Recommendations for the design of a sintering plant with preheating of the charge are provided.

A. Sh.

1. Fuels--Sintering--Test methods
2. Fuels--Sintering--Test results

Card 2/2

Lyakhov, P. A.

137-1958-2-2263

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 7 (USSR)

AUTHOR: Lyakhov, P. A.

TITLE: On the Blending of Sintering Charges (O smeshivanii aglomeratsionnykh shikht)

PERIODICAL: Tr. N. -i. i proyekt. in-ta mekhan. obrabotki poleznykh iskopayemykh, 1957, Nr 100, pp 29-45

ABSTRACT: A study was made of the influence of various factors on the blending of sintering charges. It was found that the most efficient of the barrel-type and trough-type blenders was a tumbling-barrel-type blender with baffles mounted in a checkerboard pattern at regular intervals along its interior surface. The dimensions of the baffles were: width 0.07, height 0.09, and horizontal interval between baffles 0.03 of the diameter of the barrel. The rows of baffles lining the inside of the barrel numbered 6-8. A lower efficiency was exhibited by barrel-type blenders with smooth interior surfaces and baffles of differing shapes and dimensions, also by barrel-type blenders with reversed-archimedic-screw interiors, and by trough-type blenders with screw-type or worm-type mixing elements. Results were especially poor when a barrel-

Card 1/2

137-1958-2-2263

On the Blending of Sintering Charges

type blender with a smooth interior surface was used. Optimum duration of the blending operation was 3 minutes; the optimum load comprised 10% of the volume of the containing barrel. Optimum revolving speed was 0.8 - 0.9 meters per second.

B.S.

1. Sintering charges--Blending 2. Sintering charges--Test
methods 3. Sintering charges--Test results

Card 2/2

SOV/137-58-7-14059

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 11 (USSR)

AUTHOR: Lyakhov, P. A.

TITLE: Experiences in the Starting and Operation of the Cherepovets Agglomeration Plant (Opyt puska i ekspluatatsii Cherepovetskoy aglomeratsionnoy fabрики)

PERIODICAL: [Tr.] Vses. n. -i. i proyekt. in-ta mekhan. obrabotki poleznykh iskopayemykh, 1957, Nr 102, pp 98-106

ABSTRACT: Built in accordance with a design by the Mekhanobr Institute, this plant, the first in our country to have sintering machines of 75 m² area and an exhaust fan of 6500 m³/min capacity, showed good results in the initial period of operation. The flow-sheet adopted, providing for heating of the charge and screening of the sinter fines both before and after cooling assures a relatively high unit capacity of the machine and production of high-quality sinter. Detailed description is given of the preparation of the raw material and fuel, the proportioning of the charge to the sintering machine, the sintering process, the operation of the fan, crushing of the sinter, and cooling of the sinter in a bowl-type cooler.

Card 1/1

1. Industrial plants--Operation 2 Sintering--Equipment A. Sh.

LYAKHOV, P.A.; GENERALOV, G.S.; KLOCHKOVA, N.D.; KUNIN, L.Ye.; KUSHNEROV, V.A.;
ROVENSKIY, I.I.

Addition of pyrite cinder to the agglomeration charge.

Obez. rud. 3 no.3:24-25 '58.

(MIRA 12:1)

(Sintering) (Pyrites)

LYAKHOV, P.A.

Addition of ore fines into an agglomeration charge. Obog.rud
3 no.4:28-31 '58. (MIRA 12:2)
(Sintering)

LYAKHOV, P.A.

Conference of metalworkers in Ukrainian sintering and blast
furnace plants. Obog.rud 3 no.4:47-48 '58. (MIRA 12:2)
(Ukraine--Sintering) (Ukraine--Blast furnaces)

SOV/133-59-9-3/31

AUTHORS: Lyakhov, P.A. and Kunin, L.Ye.

TITLE: Operation of the Second Sinter Plant in its Starting Stage on the Southern Mining and Ore Dressing Combine (KYUGOK)

PERIODICAL: Stal', 1959, Nr 9, pp 776-782 (USSR)

ABSTRACT: The flow of materials (Fig 1) and operating conditions of the new sinter plant during the initial period of its operation are described. The plant was designed for sintering of concentrates (no data given) with some addition of Krivoy Rog ore fines 0 - 10 mm (about 20%) at a rate of 0.86 ton/m² hour. Characteristic feature of the plant is the hydraulic removal of dust from multicyclones which considerably improved working conditions in this part of the plant. In the older plant operating in the works, the removal of dust from the multicyclones was done through a double seal by a conveyor belt. The concentration of dust in air in this part of the plant sometimes reached 2000 to 3000 mg/m³. The hydraulic removal of dust on the new plant consists of a hydraulic seal (Fig 3) connected to a constant level water tank. Dust falling from the multicyclone

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SOV/133-59-9-3/31

Operation of the Second Sinter Plant in its Starting Stage on the Southern Mining and Ore Dressing Combine (KYUGOK)

settles on the surface of the water and sinks. A continuous stream of water carries the dust into a collecting sump from which the pulp is pumped into a classifier. The amount of dust collected amounted to about 0.7 ton/hr per strand. The coarser particles separated in the classifier are returned to the sinter mix and the remaining dust is lost with water (85% of the total). The chemical composition and size distribution and magnetic properties of the dust are given in Table 2. It is expected that the magnetic recovery of the dust will be introduced. The other feature of the plant is the ventilation scheme of the conveyor belts housing (Fig 4) and partial covering of the sinter strand. The above measures improved the working conditions (measured by the concentration of dust in various parts of the plant) in comparison to those on the older plant. Some experiments on the effect of the height of the sinter bed (for concentrates alone and concentrates mixed with 20% of ore fines) and the effect of preheating the mix by hot return fines on the output of

Card 2/3

SOV/133-59-9-3/31

Operation of the Second Sinter Plant in its Starting Stage on the Southern Mining and Ore Dressing Combine (KYUGOK)

sinter were carried out. It was found that preheating of the mix with hot return fines from 28 to 53°C increased the output by 21%. The basicity of sinter was maintained at 0.4 due to the lack of limestone crushing capacity. It is concluded that the output of sinter already exceeded the design figure (0.94 to 0.95 ton/m²hr, design output 0.86 ton/m²hr) and can be further increased by the addition of 1 to 3% of lime. For further improvement of working conditions conveying of return fines in closed vibrational conveyors should be introduced. There are 4 figures and 2 tables.

ASSOCIATION: Mekhanobr

Card 3/3

ELIASBERG, S.I.; LYAKHOV, P.A.

Operation of new sintering plants. Trudy Mekhanobr. no. 122:265-
279 '59. (MIRA 14:4)

(Sintering)

LYAKHOV, P.A.; KUNIN, L.Ye.; Prinimali uchastiye: KUSHNIROV, V.A.; KLOCHKOVA,
N.D.; SEREBRYANNIK, G.I.

Hydraulic dust removal from cyclone banks in the sintering plants
of the Southern Ore-Dressing Combine. Obog. rud 5 no.6:49-53 '60.
(MIRA 14:8)

1. Aglomeratsionny tsekh Yuzhnogo gornoobogatitel'nogo kombinata
(for Kushnirov, KlochkoVA, Serebryannik).
(Separators (Machines)) (Dust collectors)

LYAKHOV, P.A.

Relationship between the indices of the sintering process and the
amount of air drawn through. Obog. rud 6 no.4:30-32 '61.
(MIRA 15:1)
(Sintering)

ZAKHAROVA, Ye.V.; LYADOV, K.P.; LYAKHOV, P.A.; PLOSHCHENKO, Ye.A.

Performance of a basin-type sinter cooler. Obog. rud. 8
no.3:25-29 '63. (MIRA 17:1)

LYAKHOV, P.A., kand. ekonom. nauk

Developing cooperation among socialist countries in the field
of road transportation. Uch. zap. LIIZHT no.3:155-176 '62.
(MIRA 17:3)

LIACHOV, S. M.

"An Investigation of the Adaption of Rheophilën,"

Dok. AN, 32, No. 8, 1941. Biol. Sta. Acad. Sci.

Urk., Karadag, -c1941-.

LYAKHOV, S. M.

PA5/49T86

USSR/Medicine - Marine Organisms
Medicine - Wood

May 48

"Studies Conducted in an Aquarium to Determine the
Amount of Damage Caused by Borers to Wood," S. M
Lyakhov, $\frac{1}{2}$ p

"Priroda" No 5

Previous efforts in this field have been unsuccessful.
Lyakhov describes his method of research and results
obtained, using specimens of *Teredo navalis* taken
from Black Sea.

5/49T86

LYAKHOV, S.M.

Materials on the biology of the Black Sea shrimp *Leander squilla* (L.).
Trudy Karad.biol.sta. no.11:110-127 '51. (MLR 6:9)
(Black Sea--Shrimps) (Shrimps--Black Sea)

LYAKHOV, S.M.

Materials on the biology of the Black Sea crab *Pachygrapsus marmoratus*
(Fabr.). Trudy Karad.biol.sta. no.11:128-140 '51 (MLRA 6:9)
(Black Sea--Crabs) (Crabs--Black Sea)

LYAKHOV, S.M. (Kuybyshev

Studying the flow of organic and mineral matter in the Volga River
near Kuybyshev and preliminary results of the first year's work
(1951-52). (MLRA 10:5)

(Volga River--Water--Analysis)

LYAKHOV, S.M.

General study of the organisms in a given segment of the Volga River, at a given time. Zool.zhur. 32 no.3:358-360 My-Je '53. (MLRA 6:6)

1. Zoologicheskii institut Akademii nauk SSSR. 2. Kafedra biologii Kuybyshevskogo meditsinskogo instituta. (Volga River--Fresh-water biology)

LYAKHOV, S.M.; ZHIDKOV, L.F.

Bottom snare, an apparatus for studying the drift of benthic organisms in a river current. Zool.zhur. 32 no.5:1020-1024 S-O '53. (MLRA 6:10)

1. Kafedra obshchey biologii Kuybyshevskogo gosudarstvennogo meditsinskogo instituta i Zoologicheskiy institut Akademii nauk SSSR.
(Fresh-water fauna)

KOSHEVA, A.F.; LYAKHOV, S.M.

Case of parasitic leech *Herpobdella octoculata* L. in the nasal cavity.
Med. paraz. i paraz. bol. no.4:355-356 O-D '54. (MIRA 8:2)

1. Iz kafedry obshchey biologii Kuybyshevskogo meditsinskogo instituta
(dir. instituta prof. T.I.Broshevskiy, zav. kafedroy prof. S.M.
Shchikleyev)

(LEECHES,

Herpobdella octoculata in nasal cavity)

(NASAL CAVITY, diseases,

Herpobdella octoculata infestation)

LYAKHOV, S.M.

Number of generations of tendipes (diptera, tendipedidae) in
collective farm ponds in the Kuibyshev Province. Dokl.AN SSSR 95
no.5:1113-1115 Ap '54. (MLRA 7:4)

1. Kuybyshevskiy gosudarstvennyy meditsinskiy institut.
Predstavleno akademikom Ye.N.Pavlovskim.
(Kuibyshev Province--Diptera) (Diptera--Kuibyshev Province)

LYAKHOV, S.M.

Some instances of invertebrate penetration into the water-supply system.
Zool.zhur.35 no.5:777-778 My '56. (MLRA 9:9)

1.Kuybyshevskiy meditsinskiy institut.
(Water--Pollution)

LYAKHOV, S.M.

Benthonic population of the Volga River near Frunze Polyana.
Trudy probl. i tem. sov. no.7:116-120 '57. (MLRA 10:4)
(Volga River--Fresh water fauna)

LYAKHOV, S.M.

KOSLOVA, N.N.; LYAKHOV, S.M.

Larva of *Minfeldia* of the group *Carbonaria* Mg. f.l. *reducta* Tshern.
(Diptera, Tendipedidae) and its biology [with summary in English].
Zool. zhur. 36 no.7:1101-1104 J1 '57. (MLRA 10:9)

1. Kafedra biologii Kuybyshevskogo meditsinskogo instituta.
(Volga Valley--Chironomidae)
(Larvae--Insects)

LYAKHOV, S.M.

Distribution range of Caspian amphipods in the Volga River
at the beginning of its hydrotechnical reconstruction. Nauch.
dokl.vys.shkoly;biol.nauki no.3:16-19 '58. (MIRA 11:12)

1. Predstavlena kafedroy biologii Kuybyshevskogo gosudarstvennogo
meditsinskogo instituta.
(Volga River--Amphipoda)

LYAKHOV, S.M.

A survey of animal populations of the sand and pebble covered beach
of the Black Sea near Karadag. [with summary in English]. Biul.MOIP.
Otd.biol. 63 no.2:99-105 Mr-Apr '58 (MIRA 11:7)
(KARADAG REGION (CRIMEA)--ANIMAL POPULATION)
(SEASHORE BIOLOGY)